

Title (en)
HOT SURFACE IGNITERS FOR COOKTOPS

Title (de)
HEISSOBERFLÄCHENZÜNDVORRICHTUNG FÜR KOCHPLATTEN

Title (fr)
ALLUMEURS POUR SURFACE CHAUDE POUR PLAQUES DE CUISSON

Publication
EP 3777474 A4 20220810 (EN)

Application
EP 19778238 A 20190327

Priority

- US 201862648574 P 20180327
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- US 2019024344 W 20190327

Abstract (en)

[origin: US2019301742A1] Hot surface igniter assemblies used in cooktops are shown and described. The hot surface igniters include a silicon nitride ceramic body with an embedded, resistive, heat-generating circuit. When energized, the circuit generates temperatures in excess of 2000 ° F. in under 4 seconds to ignite cooking gas such as natural gas. To prevent damage to the igniter during use or cleaning, an insulator assembly is provided which protects the distal end of the igniter ceramic body from damage while still exposing it to the cooking gas flow from the burner. In addition, a number of different terminal connection schemes for connecting the igniters to a power source are shown and described.

IPC 8 full level

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CPC (source: EP KR US)

F23D 14/06 (2013.01 - KR); **F23N 5/24** (2013.01 - KR US); **F23Q 7/10** (2013.01 - EP KR US); **F23Q 7/12** (2013.01 - US); **F23Q 7/22** (2013.01 - EP KR); **F24C 3/085** (2013.01 - KR US); **F24C 3/103** (2013.01 - EP KR US); **F24C 3/126** (2013.01 - EP KR US); **F24C 15/108** (2013.01 - KR US); **H05B 3/42** (2013.01 - EP KR); **F23D 14/06** (2013.01 - US); **F23D 2207/00** (2013.01 - EP KR); **F23N 2227/42** (2020.01 - EP KR); **H05B 2203/013** (2013.01 - EP KR); **H05B 2203/027** (2013.01 - EP KR)

Citation (search report)

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Designated contracting state (EPC)

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DOCDB simple family (application)

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